

FIG. 1

1



FOUO 10040176 105200T

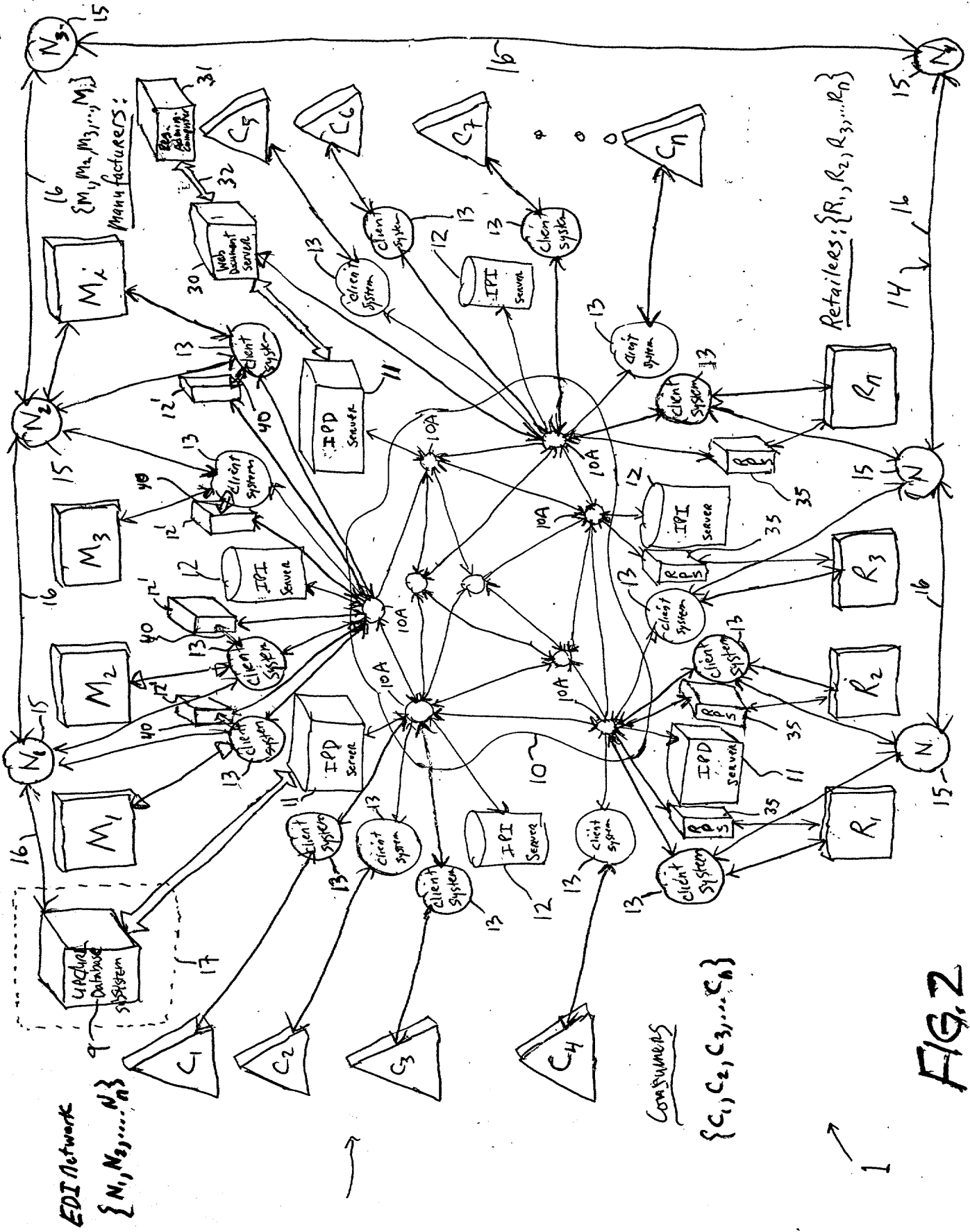


FIG. 2



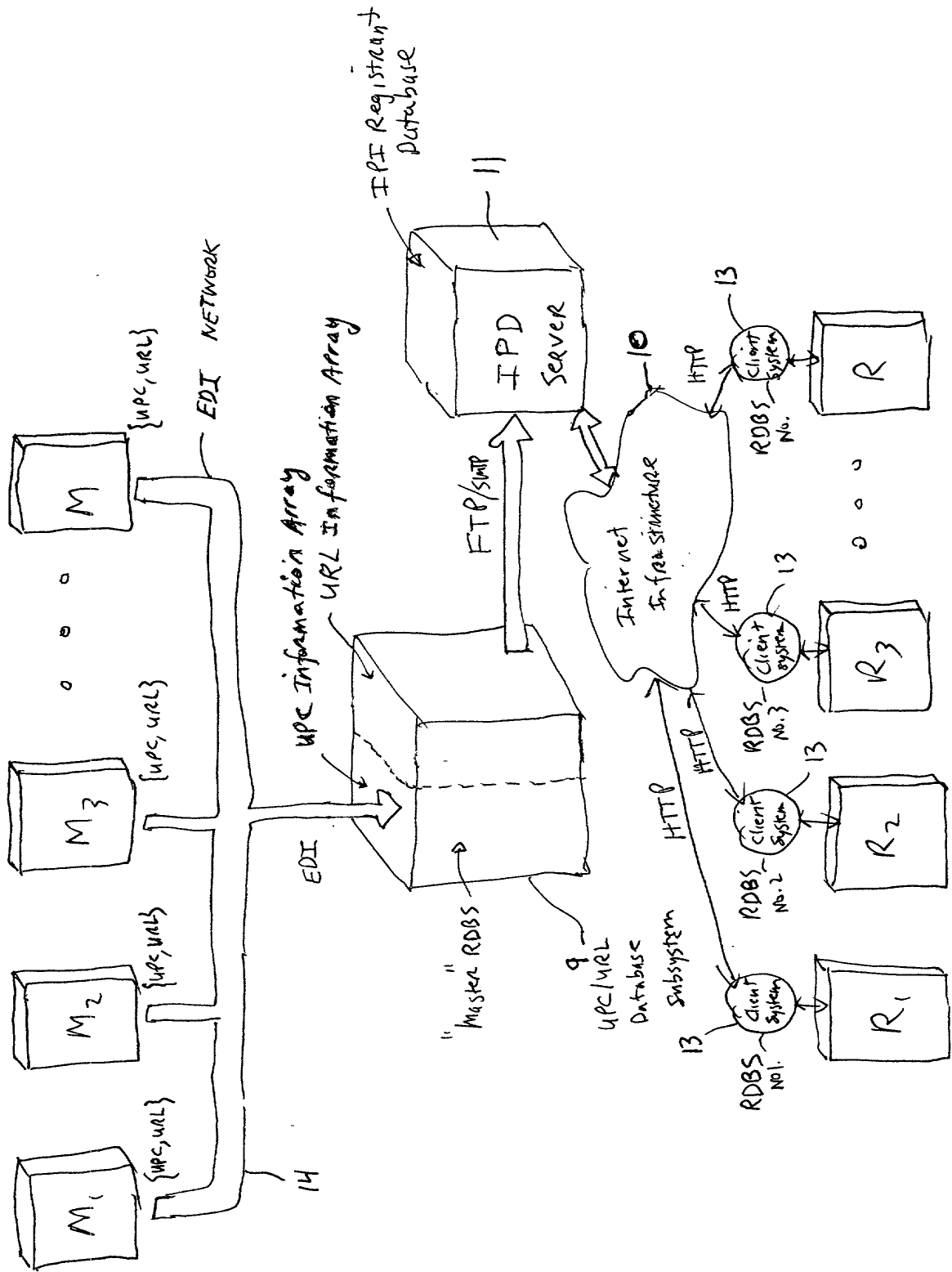


FIG. 2A



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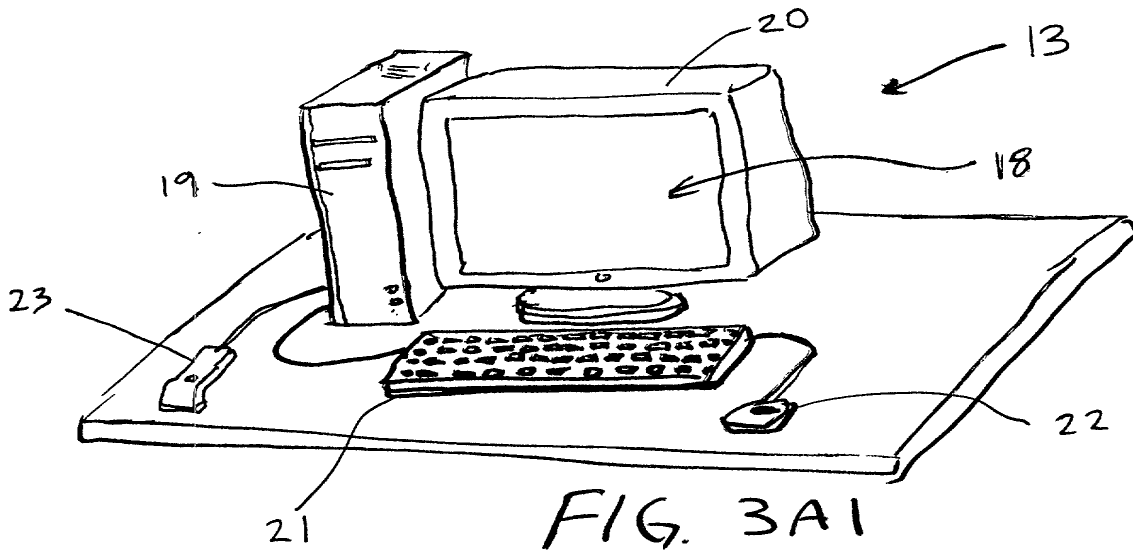


FIG. 3A1

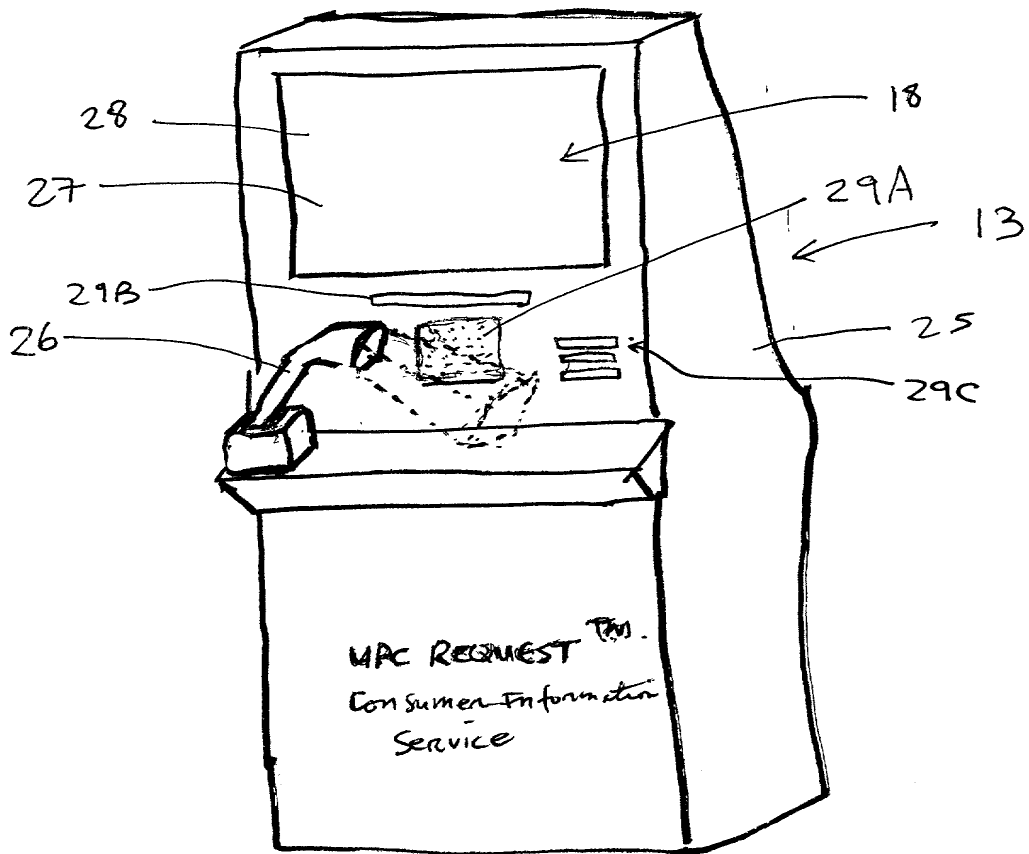
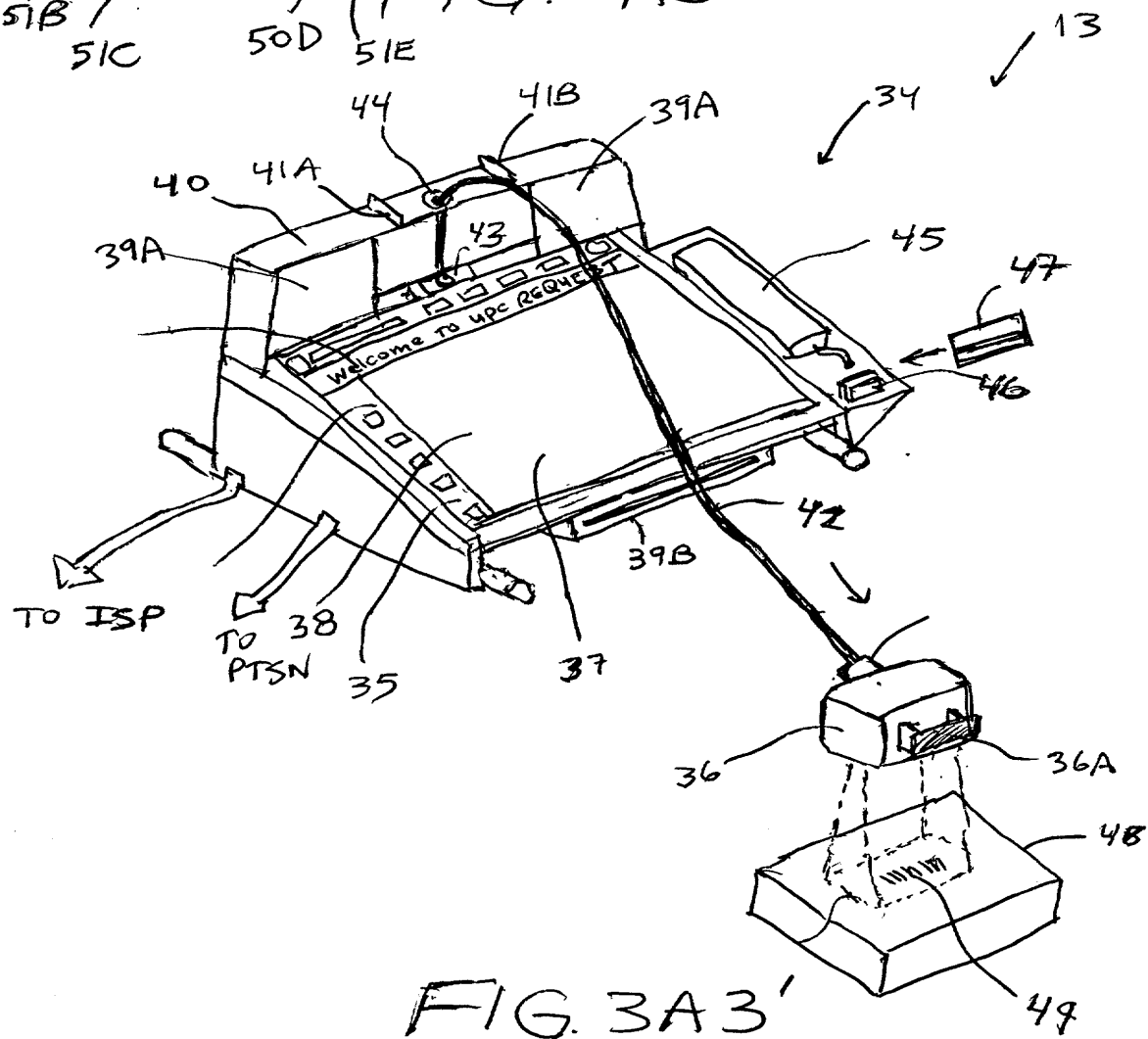
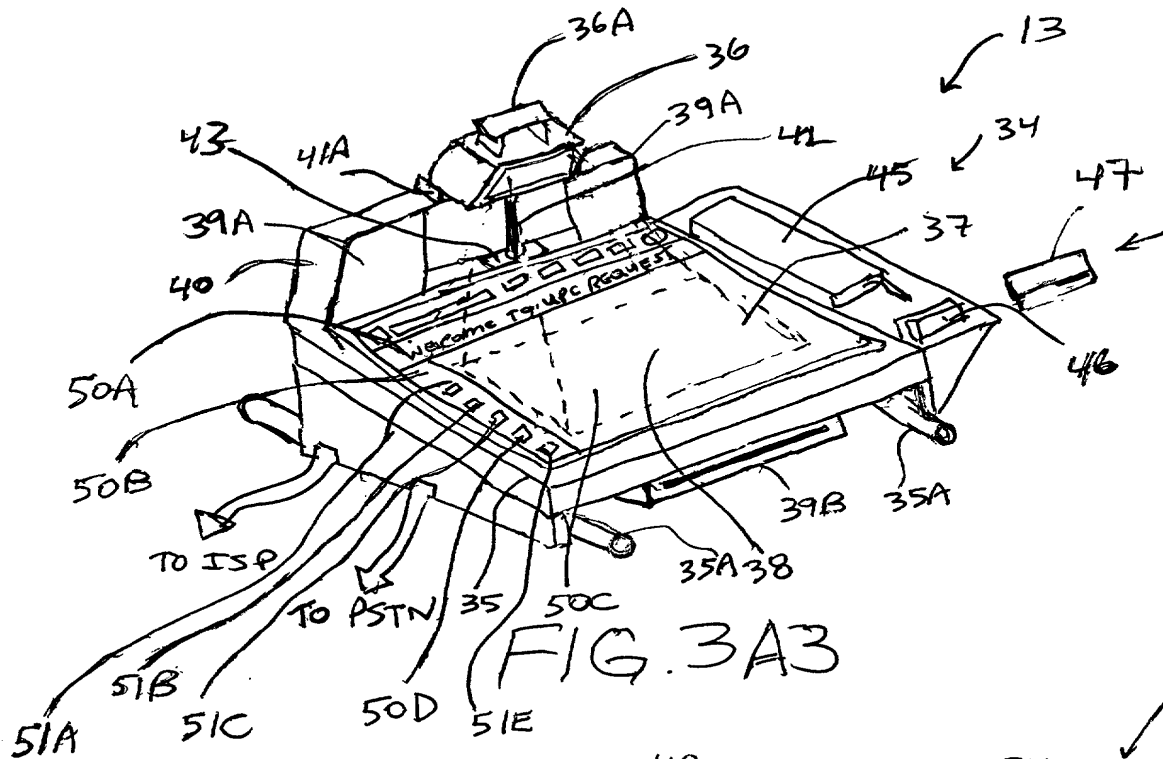


FIG. 3A2

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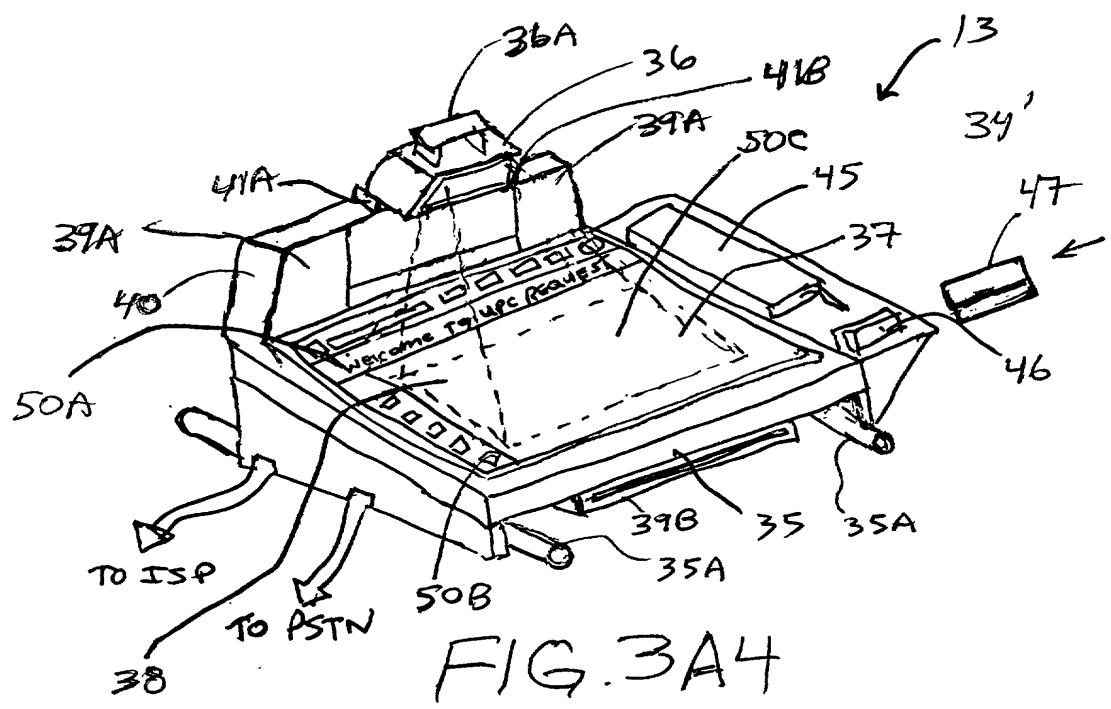


FIG. 3A4

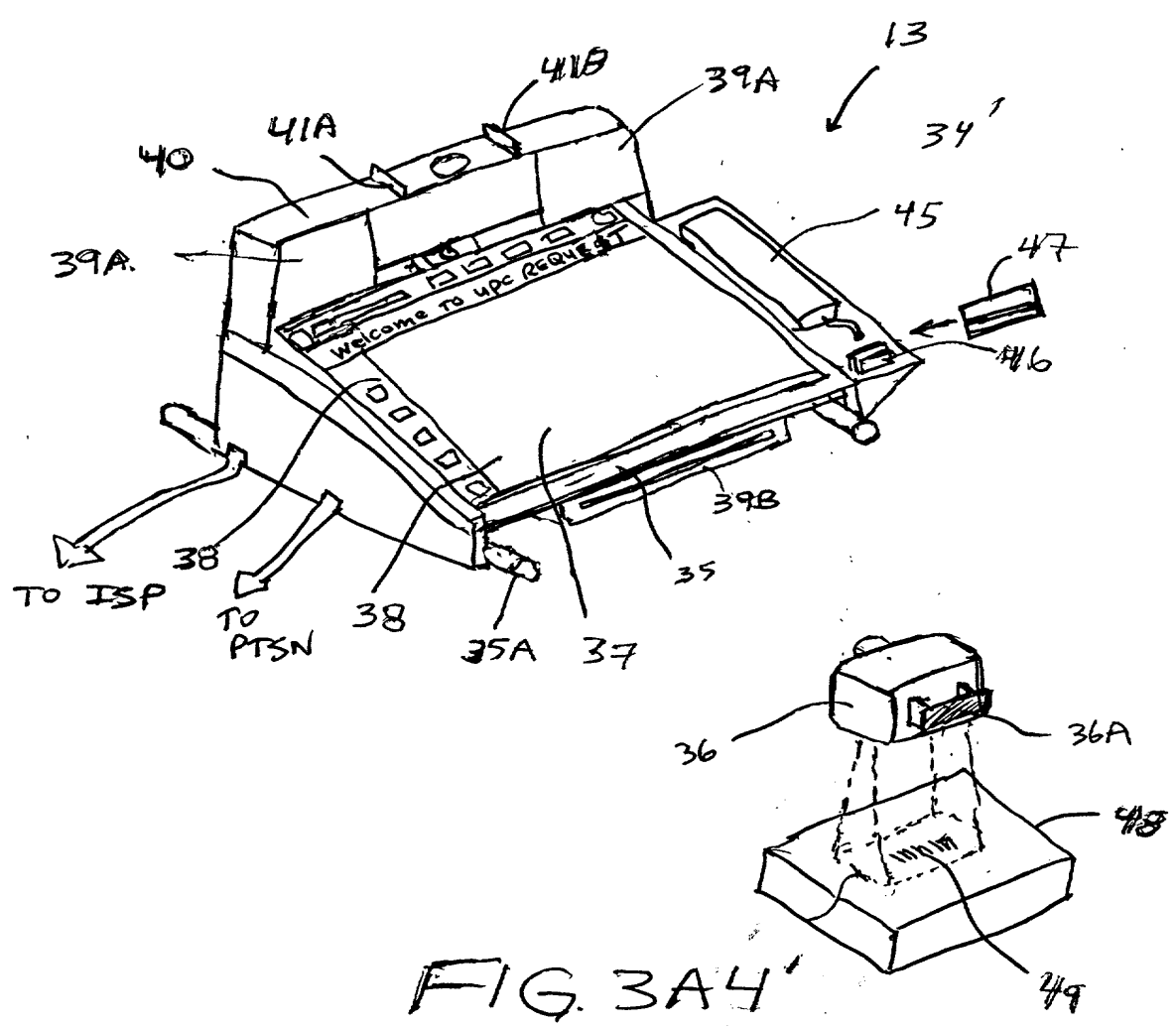


FIG. 3A4'

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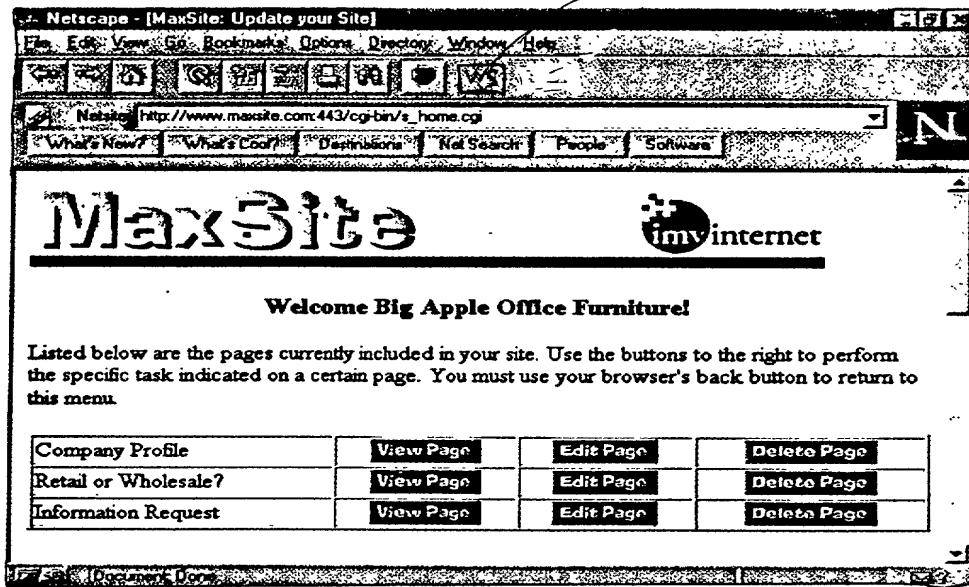
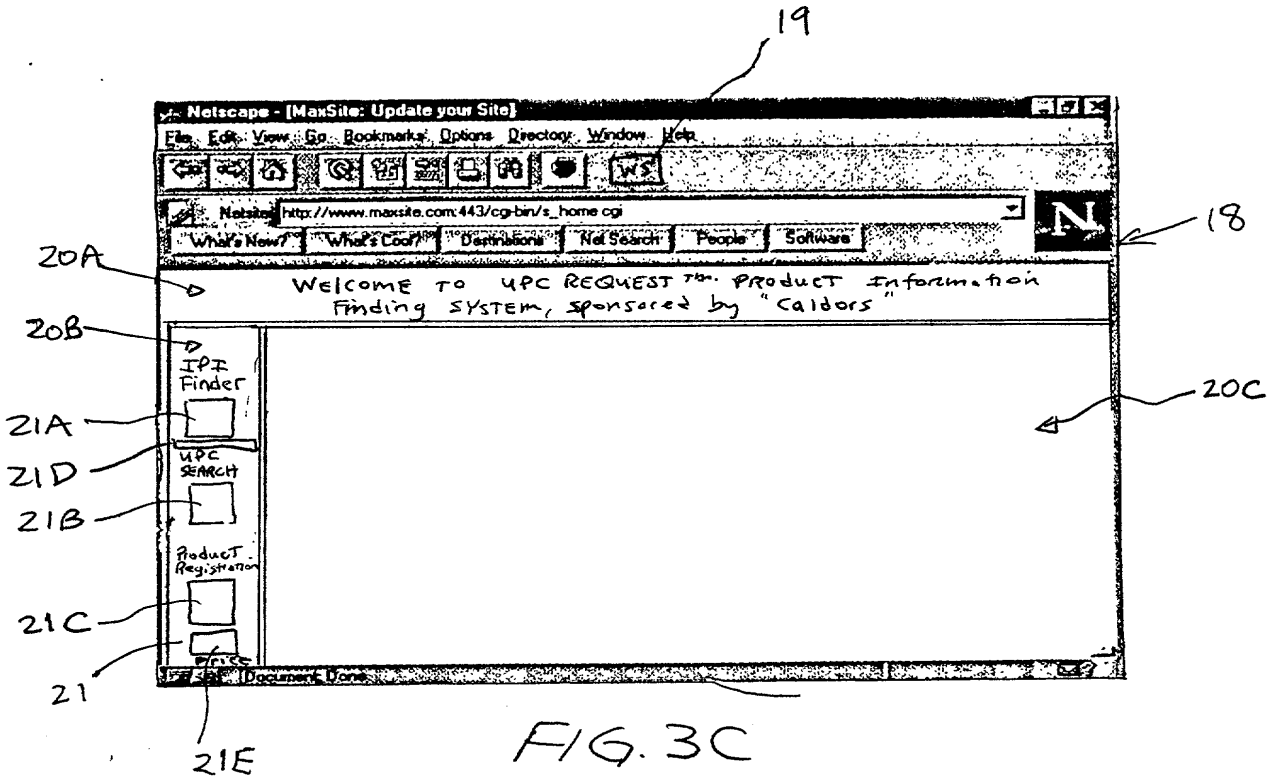


FIG. 3B





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| I P/S N         | Registrant's Name                         | Product Description                        | Uniform Resource Locator (URL) | Trade/Service Marks  | E-mail Address | Status |
|-----------------|---|--|--------------------------------|----------------------|----------------|--------|
| 7/18908/17674/0 | Apple Computer, Inc.<br>Cupertino, Calif. | Power Mac<br>7600/120<br>Personal Computer | http://www. .... /             | Power Mac.           |                |        |
| 0/373/100/6     | Pacter & Gamble                           | toothpaste                                 | http://www. .... /             | CREST                |                |        |
| 3/12547/68404/0 | Warner Welcome                            | acid reducer                               | http://www. .... /             | Zantac,<br>Zantac 75 |                |        |
| 0/00005/17643/4 | Kodak, Inc.                               | film processing                            | http://www. .... /             | Kodak                |                |        |
| 0/27242/51057/9 | Sony, Inc.                                | personal computer                          | http://www.Sony.com/pc         | Sony                 |                |        |

Information structure of Relational  
Database Realized aboard  
IPS Directory Server

FIG. 4A1



11 Subfield Structure of URL Information Field  
of IPSP Database "

| URL | Product<br>specification<br>Information<br>Field | Product<br>update<br>Information<br>Field | Product<br>Warranty/Service<br>Information<br>Field | Product<br>Incentive<br>Information<br>Field | Product<br>Review<br>Information<br>Field | Miscellaneous<br>Information<br>Field | Product<br>Advertising<br>Information<br>Field |
|-----|--|---|---|--|---|---------------------------------------|--|
| .   | .  | .   | .   | .  | .   | .                                     | .  |
| .   | .  | .   | .   | .  | .   | .                                     | .  |
| .   | .  | .   | .   | .  | .   | .                                     | .  |
| .   | .  | .   | .   | .  | .   | .                                     | .  |

FIG. 4A2



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| IP/SN           | Registrant's NAME             | Product Description  | Trade/Service MARKS | E-mail Address | Status |
|-----------------|-------------------------------|----------------------|---------------------|----------------|--------|
| 7/05089/37460/7 | NetScope Communications Corp. | Internet Navigator   | NetScope, Navigator |                |        |
| 0/30000/0/020/4 | Quaker Inc.                   | Oatmeal              | Quaker              |                |        |
| 0/496/390/1     | Coca Cola, Inc                | Cola Soda            | Coca-Cola, Coke     |                |        |
| 0/7599/24245/2  | Warner Bros.                  | Pat Metheny Audio CD | Getten              |                |        |
| .               | .                             | .                    | .                   | .              | .      |
| .               | .                             | .                    | .                   | .              | .      |
| .               | .                             | .                    | .                   | .              | .      |

Information structure of Relational  
Database Realized as a  
IPS Directory Server

FIG. 4B



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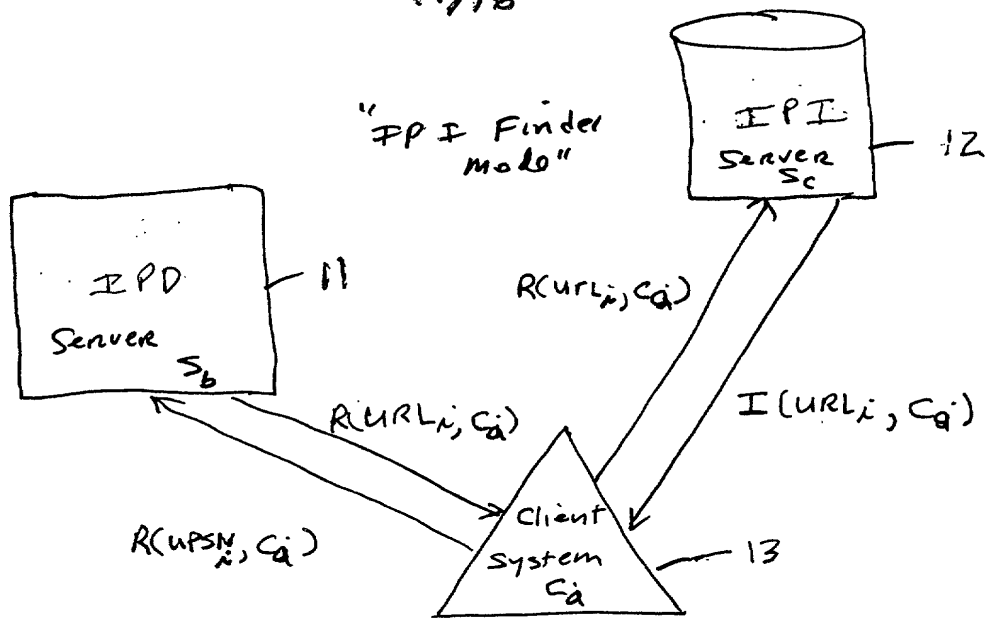


FIG. 5A

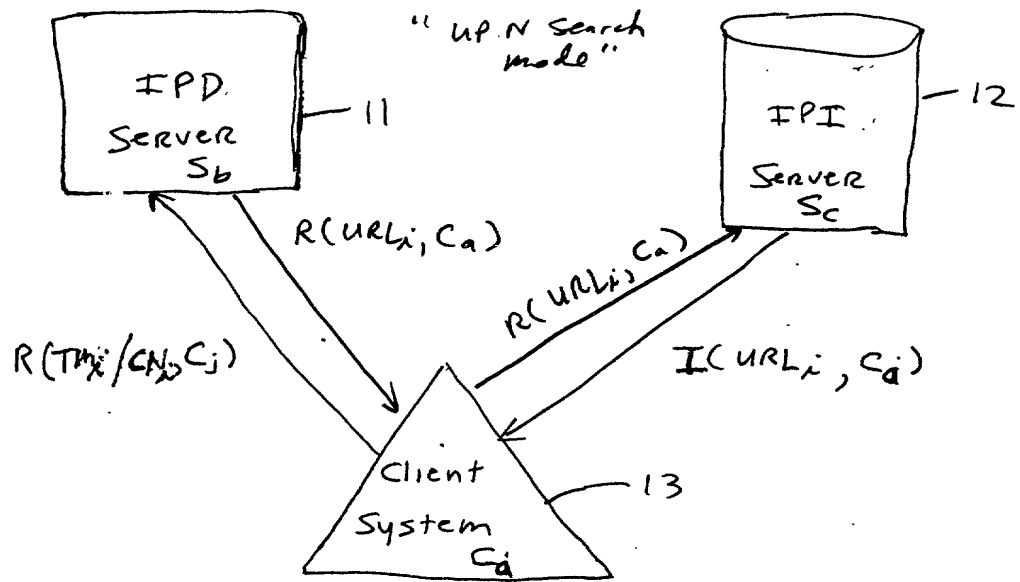
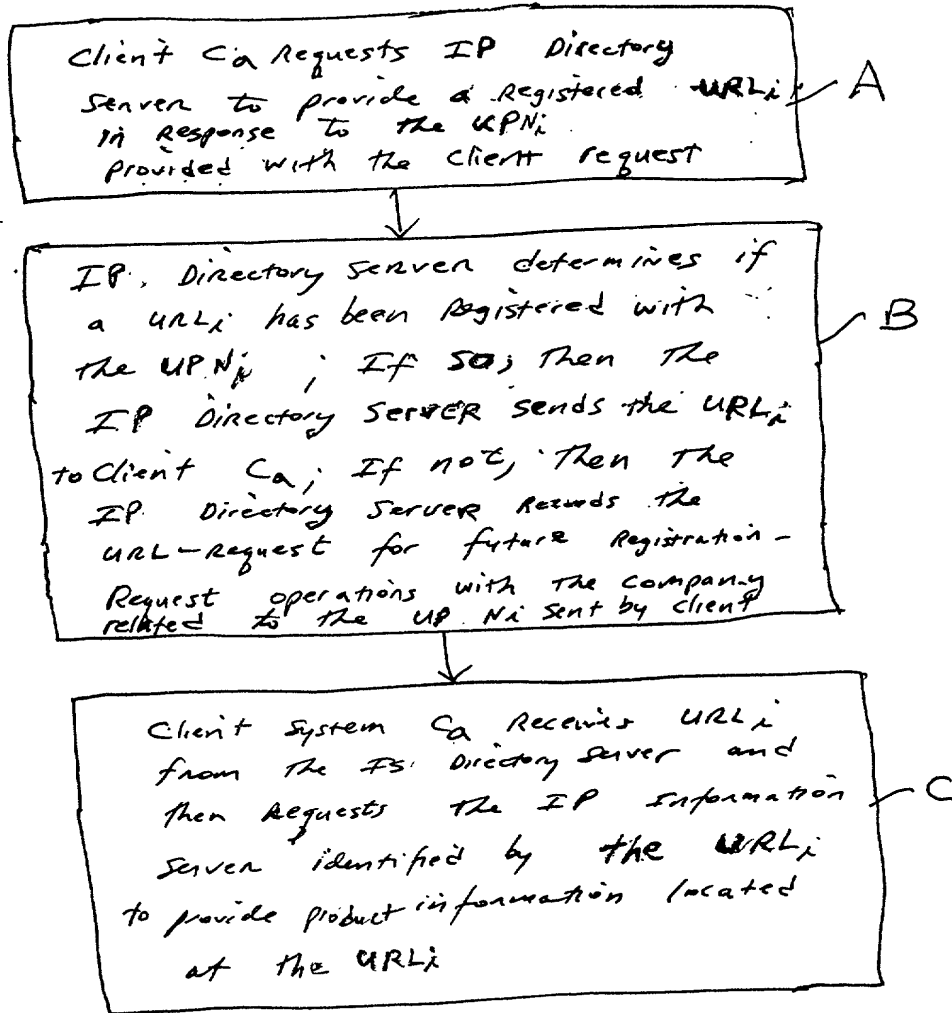


FIG. 5B



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"IP I Finder  
Mode"  
(Fig. 5A)

FIG. 6A



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Client system C<sub>a</sub> requests IP  
Directory to provide a Registered  
URL<sub>i</sub> in response to a trademark  
and/or company name (TM<sub>i</sub>)  
provided with the client request

A

IP Directory server determines  
if a URL<sub>i</sub> has been registered with  
the TM<sub>i</sub>; if so, then the IP  
Directory server sends the URL<sub>i</sub> to  
client C<sub>a</sub>; if not, then the IP  
Directory server records the URL-Request  
for future registration-request operations  
with the company related to the TM<sub>i</sub>  
sent by client system C<sub>a</sub>

B

Client system C<sub>a</sub> receives URL<sub>i</sub> from  
the IP Directory server and then  
requests the IP Information server  
identified by the URL<sub>i</sub> to provide  
Product information located at the  
URL<sub>i</sub>

"UP N Search  
Mode"

(A9.5B)

FIG. 6B

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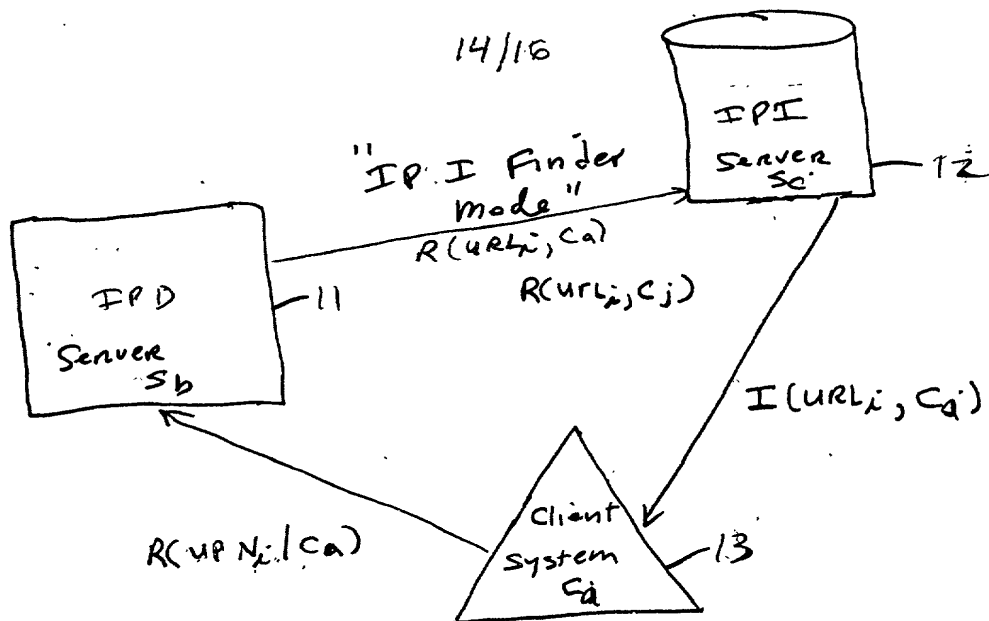


FIG. 7A

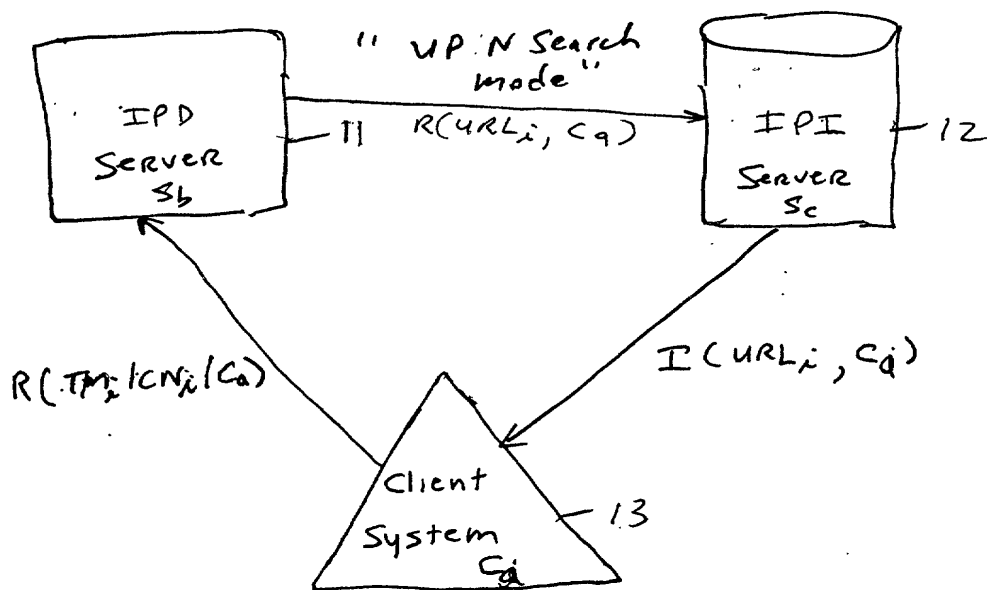


FIG. 7B



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Client  $C_a$  requests IP Directory Server to provide a Registered  $URL_i$  in response to the  $UP.N_i$  provided with the client request

IP Directory Server determines if a  $URL_i$  has been registered with the  $UP.N_i$  ;  
If so, then the IP Directory Server sends the IP Information Server hosting the  $URL_i$ , a request for the IP Information Server to send product information at the  $URL_i$  to the client system  $C_a$  ; If not, then the IP Directory Server records the URL-Request for future registration - request operations with the company related to the  $UP.N_i$  sent by the client system  $C_a$

The IP Information Server receives the  $URL_i$  from the IP Directory Server and then provides the product information identified by the  $URL_i$  to the client system  $C_a$

"IP Finder Mode"

(Fig. 7A)

FIG. 8A

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Client  $C_i$  requests IP Directory Server to provide a registered  $URL_i$  in response to a trademark, service mark and/or company (TM $_i$ ) provided with the client request

IP Directory server determines if a  $URL_i$  has been registered with the TM $_i$ ; if so, then the IP Directory Server sends the IP Information Server hosting the  $URL_i$ , a request for the IP Information server to send product information at the  $URL_i$  to the client system  $C_i$ ; if not, then the IP Directory Server records the URL-request for future registration-request operations with the company related to the UPN $_i$  sent by the client system  $C_i$ .

The IP Information server hosting the  $URL_i$  receives the request from the IP Directory server and then provides the product information identified by the  $URL_i$  to the client system  $C_i$

"UP-N search mode"

(Fig. 7B)

FIG. 8B